Name: _____ Class: _____Due Date: _____

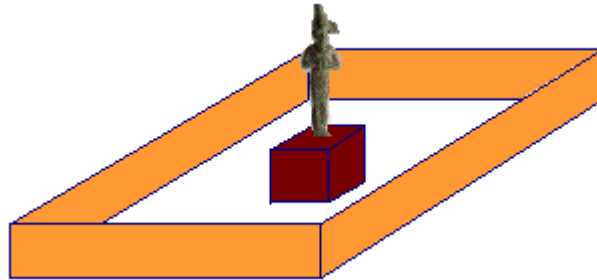**When solving the following problem, be sure to:**

   1) **Restate the <u>question</u>**
   2) **State your <u>answer</u> in a complete sentence.**
   3) **<u>List</u> facts and important information**
   4) **<u>Explain</u> your solution strategy and include your <u>calculations</u>/work.**

POW Garden Grove

Use the information provided to answer the questions below.

   - A garden is being built that is 8 feet wide by 15 feet long by 6 inches deep.
   - There will be a statue on a platform in the middle that is 2 feet wide by 2 feet long by 6 inches deep.
   - The soil mix for this garden will have 3 **parts** dirt to 2 **parts** peat moss (3:2).

Questions:

   1. How much dirt will be needed?
   2. How much peat moss will be needed?

Bonus: The garden center sells a mixture that is 2 parts dirt to 3 parts peat moss (2:3). They also sell pure dirt. By combining the 2:3 mixture and the pure dirt, the desired 3:2 ratio of dirt to peat can be created. The garden is being filled by dumping wheelbarrow loads of pure dirt and wheelbarrow loads of the mixture. How might the wheelbarrow loads be organized so that the garden ends up with the proper ratio of dirt to peat moss (3:2)?

Please answer the problem on a separate piece of paper. You must include all your calculations and an explanation of how you got your answer. Your paper will be scored in the following way:
   - 4 The answer and the bonus are correct, you have included all your calculations, and the explanation is thorough and understandable.
   - 3   The answer is correct, you have included all your calculations, and the explanation is complete and clear to the reader.
   - 2 The answer is missing one of the items mentioned above.
   - 1 The answer is incorrect, and the explanation or calculations are poor or missing.
   - 0   Minimal or no effort was made to solve the problem.
   - All late work is marked down a grade.